

101.14 - Cast Steels, White Cast Irons, and Ductile Irons (disk form)

These SRMs are for analysis of cast steels and cast irons by rapid instrumental methods.

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	C	Mn	P	S	Si	Cu	Ni	Cr	V
1138a	Cast Steel (No. 1)	disk	0.118	0.35	0.035	0.056	0.25	0.09	0.10	0.13	0.020
1139a	Cast Steel (No. 2)	disk	0.790	0.92	0.012	0.013	0.80	0.47	0.98	2.18	0.26
1173	Ni-Cr-Mo-V Steel	disk	0.423	0.19	0.033	0.092	1.28	0.204	4.06	2.70	0.42
C1137a	White Cast Iron	disk	2.86	0.52	0.087	0.017	1.15	0.192	2.17	0.643	0.019
C1145a	White Cast Iron	disk	2.92	0.187	0.215	0.191	0.271	0.46	0.62	0.63	0.112
C1173	Cast Steel 3	disk	0.453	0.174	0.031	0.092	1.38	0.204	4.04	2.63	0.42
C1290	High Alloy (HC-250 + V)	disk	3.04	0.66	0.030	0.013	0.971	0.065	0.917	30.5	0.442
C1291	High Alloy (Ni-Hard, Type I)	disk	2.67	1.14	0.028	0.032	1.34	0.26	4.34	2.78	0.031
C1292	High Alloy (Ni-Hard, Type IV)	disk	3.47	0.55	0.049	0.016	0.59	0.36	5.04	11.4	0.041
c2423a	Ductile Iron B	disk	3.66	0.91	0.246	(1.59	1.61	0.147	0.322	0.043
C2424	Ductile Iron C	disk	2.68	0.268	0.041	0.024	3.37	0.125	0.061	0.13	0.083

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Mo

0.05

0.51

1.50

0.86

0.48

1.46

(0.041)

0.32

0.25

0.159

0.019

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SRM	Description	Unit of Issue	Ti	Al	Mg	Co	As	Fe	Pb	Nb	Ce
1138a	Cast Steel (No. 1)	disk	(0.0012)	(0.067)			((98.7)			
1139a	Cast Steel (No. 2)	disk	(0.004)	(0.13)			((93.0)			
1173	Ni-Cr-Mo-V Steel	disk	(0.015)			(0.064)				(0.045)	
C1137a	White Cast Iron	disk	(0.04)	(0.007)	0.032	Ce 0.016					
C1145a	White Cast Iron	disk	0.012	(0.04)		0.058	(0.02)				
C1173	Cast Steel 3	disk	0.037	(0.005)		(0.064)	(0.02)		(0.0006)		
C1290	High Alloy (HC-250 + V)	disk									
C1291	High Alloy (Ni-Hard, Type I)	disk									
C1292	High Alloy (Ni-Hard, Type IV)	disk									
c2423a	Ductile Iron B	disk	0.10	(0.08)	0.076	(0.02)					0.031
C2424	Ductile Iron C	disk	0.050	(0.006	(0.05)					0.0046

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La
0.0042
0.0011

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